

**ABSTRACT OF THE DISCLOSURE**

A force generator for an active vibration control (AVC) system provides a mass located upon an inner circular member which is movable within an outer circular member to simultaneously complete one revolution about its axis as it orbits within the outer circular member to compensate for sensed vibrations. A crank mounts the inner circular member and a counterweight. The crank is rotated by a prime mover such as an electric motor. The mass will therefore generate a sinusoidal inertial force in a straight line. Multiple systems are suitably arranged to be used in conjunction with one another to provide a wide range of inertial force outputs.

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